QED™ PRO SERIES

Safety Manual & General Maintenance

Safety Manual and General Maintenance

PRO SERIES

TABLE OF CONTENTS

MANUAL GUIDELINES

Any general symbols used on the product can be found in the table below:

Symbol	Description	Symbol	Description
	By placing the CE marking on a product a manufacturer is declaring, on their sole responsibility, conformity with all of the legal requirements, and for the product to be sold within, the European Economic Area (EEA).		General warning or hazard.
	The wheelie bin icon indicates that the product cannot be disposed of through general waste. Separate collection, handling and disposal of waste electrical and electronic equipment and its components is required.		For indoor use only.
	Refer to Operator's Manual.		Symbol for IECEx certified equipment for potentially explosive atmospheres.
	Symbol for ATEX certified equipment for potentially explosive atmospheres.		Symbol of the agency that assessed the product to applicable standards. A "US" indicates the product meets the applicable US standards and a "C" indicates the product meets the applicable Canadian standards.

NOTES AND HYPERLINKS

Note: *Important/useful information and instructions are shown clearly throughout the manual in this format.*

Hyperlinks to other sections of this manual, websites, or email addresses will be shown clearly throughout the manual in this format: www.qedenv.com.

Safety Manual and General Maintenance

PRO SERIES

MODELS
PRO SERIES

Pro Series

2903

IECEx SNA 25.0004X
SGSNA25ATEX031801X

801503
CLASS 1, ZONE 1
AEx ib IIA T1
Ta = -10°C to +45°C

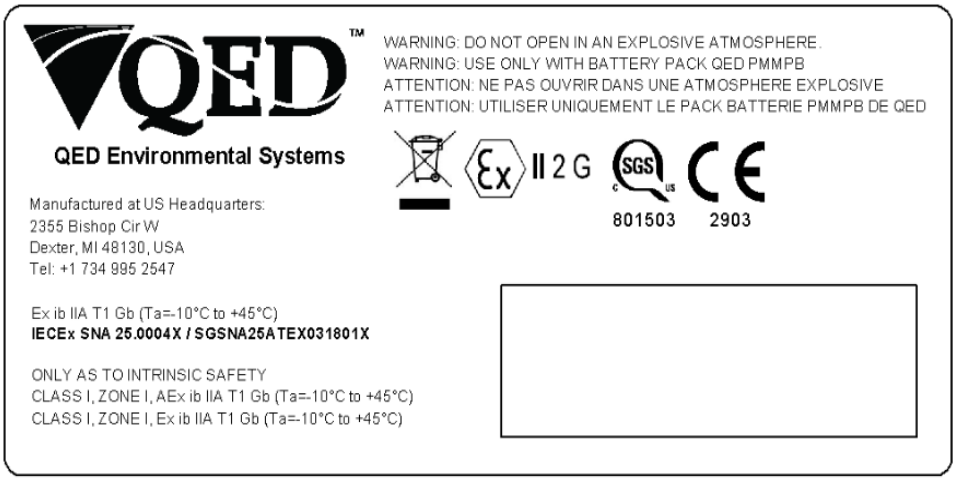


Figure 1 – Pro Series Marking Plate

Specific Conditions of Use:

None

Conditions of Acceptability:

None

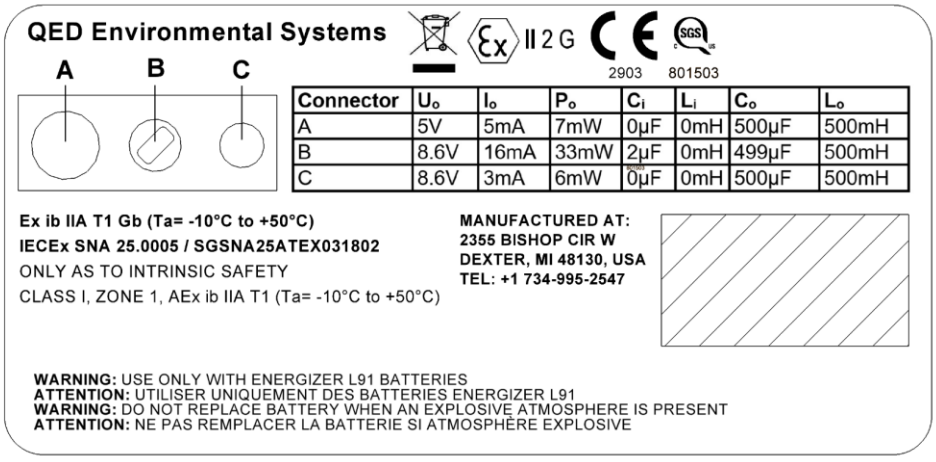
AFFINITY

Affinity

2903

IECEx SNA 25.0005
SGSNA25ATEX031802

801503
CLASS 1, ZONE 1
AEx ib IIA T1
Ta = -10°C to +50°C



Marking plate

Specific Conditions of Use:

None

Conditions of Acceptability:

This product is to be used with only AA Type Energizer™ L91 Cells

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WARNINGS

The following warnings are for the setup, use, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

Failure to follow the correct information may result in physical injury which in some cases could be fatal. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

FCC

The Gem Pro is classified as industrial, commercial, or medical test equipment and is therefore exempt from the technical standards and equipment authorization requirements of Part 15 of the FCC Rules, pursuant to 47 CFR § 15.103(c).

Although this device is exempt, it is designed to minimize the potential for harmful interference. Operation is subject to the following conditions:

- The operator of this device shall be required to stop operating the device upon a finding by the Commission or its representative that the device is causing harmful interference.
- Operation shall not resume until the condition causing the harmful interference has been corrected.
- Please contact QED immediately if interference with other devices is discovered.

The Affinity has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user in encouraged to try to correct the interference by on or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING

INTRINSIC SAFETY

Intrinsically safe equipment that is improperly used, maintained or connected to non-intrinsically safe equipment will create a hazardous condition and can cause a fire or explosion. Follow local regulations and the following safety requirements.

- Only use QED-approved components.
- Be sure to follow national, state and local codes including all of the local saftey fire codes and NEC 500.
- The equipment may be used with flammable gases and vapours with apparatus group IIA and temperature class T1.
- The equipment can contain gas sensing heads for the detection of particular gases. The inclusion of a sensor does not infer that the equipment is suitable for the use of gases with a temperature class of less than T1.
- The Pro Series is only certified for use in ambient temperatures in the range -10°C to +45°C (14°F to 113°F) and should not be used outside this range.
- Affinity is only certified for use in ambient temperatures in the range -10°C to +50°C (14°F to 122°F) and should not be used outside this range.
- The equipment must not be used in an atmosphere of greater than 21% oxygen.
- The equipment must not be used in atmospheric pressure outside of 800mbar to 1100mbar.
- Do not charge, recharge, or open in a potentially explosive atmosphere.
- For the Pro Series Battery Pack (PMMPB), the maximum input voltage, Um, at the battery connector shall not exceed 10.1V.
- Only battery charger type iQ-3.9 shall be used to recharge the battery pack PMMPB.
- Any damage to the equipment that could affect the integrity of the IP65 rating, must be reported to the manufacturer.

For Pro Series only:

- Use only with battery pack QED PMMPB.
- Use only with Energizer® CR2032 battery (QED part number iQ-COINCELL).

For Affinity only:

- Use only Energizer® L91 batteries.
- Do not replace the battery when an explosive atmosphere is present.
- Do not attempt to charge non-rechargeable batteries.

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⚠ WARNING




FIRE AND EXPLOSION HAZARD

Flammable gases, such as methane, in work area can ignite or explode. To help prevent fire and explosion:

- Use equipment only in well-ventilated areas.
- Eliminate all ignition sources; such as pilot lights or cigarettes.
- Do not open the equipment in an explosive atmosphere.
- Where hazardous gases are being used the gas exhausted from the instrument must be piped to an area where it is safe to discharge the gas.
- It is the responsibility of the operator to determine the protection concept and classification of equipment required for a particular application and whether these gases create a potentially explosive atmosphere.
- Do not attempt to charge non-rechargeable batteries.
- Static charge may build up on plastic parts during cleaning and could discharge and ignite flammable gases. To help prevent fire and explosion:
- Do not clean with a dry cloth.

WARNING	
	TOXIC FUMES HAZARD The Pro Series of gas instruments can be used for measuring gases from landfill sites and biogas plants. Toxic gases can cause serious injury or death if inhaled. • Read Safety Data Sheets (SDSs) to know the specific hazards of the gases you are using. • Ensure that users are adequately trained in the safety aspects of the gases being used and that appropriate procedures are followed. • Store hazardous gases in approved containers, and dispose of empty cylinders according to applicable guidelines. • Ensure hazardous gases are exhausted from the instrument to an area where it is safe to discharge the gas. • Hazardous gases may be exhausted from the instrument when purging with clean air. Ensure gases are exhausted to an area where it is safe to do so. • When opening the instrument, do so in a well-ventilated area.
	PERSONAL PROTECTIVE EQUIPMENT Always wear appropriate personal protective equipment (PPE) when using the equipment. Protective equipment helps prevent serious injury, including long-term exposure and inhalation of toxic fumes. Given the applications of intended use, this protective equipment may include, but is not limited to: • Protective eyewear. • Hearing protection. • Protective clothing, such as footwear, gloves, or hard-hat, should be identified through a full risk assessment.

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⚠ WARNING

EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

- Do not use the equipment when fatigued or under the influence of drugs or alcohol.
- Do not exceed the working parameters outlined in the intrinsic safety warnings.
- The input pressure for the Pro Series should not exceed +/- 500 mbar relative to atmospheric pressure and the output pressure should not exceed +/- 100 mbar relative to atmospheric pressure.
- Gas instruments are sensitive pieces of scientific equipment and must be treated as such. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the instrument may be impaired.
- If the equipment is likely to be exposed to aggressive substances (e.g. acidic liquids, gases that may attack metals, or solvents that may affect polymeric materials) then it is the responsibility of the user to take suitable precautions. Contact QED or our distributor if there are concerns.
- Do not alter or modify the equipment outside of any instructions provided by QED.
- Only QED approved components are to be used as replacement parts. Alternatives may void agency approvals and create safety hazards.
- The instrument has been designed to be used in explosive atmospheres as defined by the classification. The instrument can be configured to measure low levels of several gases, but may not be certified for use in potentially explosive atmospheres of these gases.
- Use the equipment only for its intended purpose. Contact QED or our distributors for information.
- Repair of this equipment shall be carried out following the applicable code of practice.
- Check equipment for damage before each use. Contact QED or our distributors if there are concerns.
- When the battery is worn out, it must be disposed of under the ordinance of the local authority and not disposed of through general waste.
- Keep children and animals away from the work area.
- Comply with all applicable safety regulations.

Note: *For further information please contact Technical Support at QED on:*

QED Environmental Systems, Inc.

+1 (800) 624-2026

service@qedenv.com

USE AND SETTING UP

PRO SERIES

To prevent fire and explosion:

- Do not charge or open in a hazardous or potentially explosive area.
- Battery Pack QED PMMPB is only for use with Pro Series.
- Do not attempt to charge non-rechargeable batteries, for example, the Affinity batteries.

BATTERY AND CHARGER

Power Supply	Description
Battery Type	Rechargeable nickel metal hydride battery pack (user replaceable)
Battery Life	Typical use 10 hours from fully charged
Battery charger	Separate intelligent 3A battery charger powered from the mains supply (100-240V)
Charger connector type	2-pin ODU
Charge time	Approximately 4 hours from complete discharge
Charging mode	Connected to the instrument, or standalone

- The PMMPB batteries used are nickel metal hydride and manufactured as a user-replaceable pack containing six individual cells and a PCB.
- The Pro Series is supplied with a rechargeable battery pack (QED part number PMMPB). Charging of the battery pack can be undertaken while the battery is fitted or removed from the instrument. To charge the battery pack, QED charger iQ-3.9 must be used and charging must be in a safe area.
- Charge only with QED Charger part number iQ-3.9.
- A full charge will take approximately 4-hours.

To charge the battery pack, align the red dot on the charger plug with the red dot on the battery pack socket and plug in until you feel and hear the click of the latching mechanism – see annotation in Figure 2.

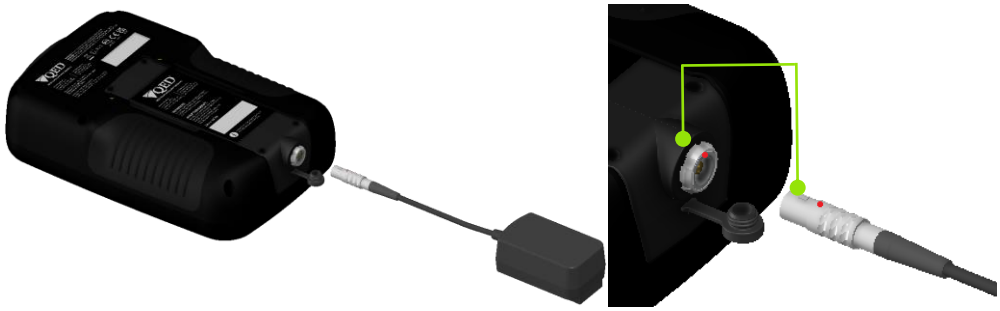

Figure 2 – Charging

Note: *If the PMMPB battery is removed, the backup coin cell will maintain time/date settings and CO (H_2 compensated) cell conditioning for approximately 10 minutes. After this time, the user will have to reset the time & date and CO (H_2 compensated) cell conditioning will be affected, meaning the user may need to allow the cell to stabilise for 24 hours before use.*

PRO SERIES

MEASURING GAS

To prevent fire and explosion:

- Do not charge or open in a hazardous or potentially explosive area.
- Eliminate all ignition sources; such as pilot lights or cigarettes.

To prevent inhalation of harmful gases:

- Read Safety Data Sheets (SDSs) to know the specific hazards of the gases you are using.
- Ensure that users are adequately trained in the safety aspects of the gases being used and that appropriate procedures are followed.
- Store hazardous gases in approved containers, and dispose of empty cylinders according to applicable guidelines.
- Ensure hazardous gases are exhausted from the instrument to an area where it is safe to discharge the gas.
- Hazardous gases may be exhausted from the instrument when purging with clean air. Ensure gases are exhausted to an area where it is safe to do so.

Figure 3 – Pro Series Connections

Figure 4 – Pro Series Connection to QED Wellhead

PRO SERIES

eference	Description	Purpose
1	Gas Inlet	Used to connect the instrument to the monitoring point where gas is to be measured.
2*	Flow Port	GA PRO – Used to connect the instrument to a monitoring point such as a borehole to measure gas flow rate for compliance purposes. GEM PRO and BIOGAS AD PRO – Used to connect the instrument to a monitoring point such as a QED Wellhead to measure the differential pressure and calculate gas flow and power.
3*	Pressure Port	Only available on the GEM PRO, used to connect the instrument to a monitoring point such as a QED Wellhead to measure the system pressure.
4	Gas Exhaust	Measured gas from the gas inlet will exhaust here. It is recommended that a tube is connected to the exhaust and gas is vented to a safe area to protect the user.

Note: ** is only available on certain configurations.*

AFFINITY



To prevent fire and explosion:

- Do not open in a hazardous or potentially explosive area.
- Eliminate all ignition sources; such as pilot lights or cigarettes.
- Only use AA Type Energizer™ L91 batteries.
- Do not attempt to charge non-rechargeable batteries, for example, the Affinity batteries.

CONNECTIONS

Various peripherals can be connected to Affinity to measure different parameters, but these peripherals may not be certified or certified appropriately for use in potentially explosive atmospheres. It is the responsibility of the operator to determine the protection concept and classification of equipment required for a particular application and whether these peripherals are suitable for use in a potentially explosive atmosphere.

The instrument has been designed to be used with peripheral accessories that can be connected to the three connection sockets on Affinity, namely Temperature Probe, Anemometer, and Humidity Probe. The entity parameters for these sockets are as follows:

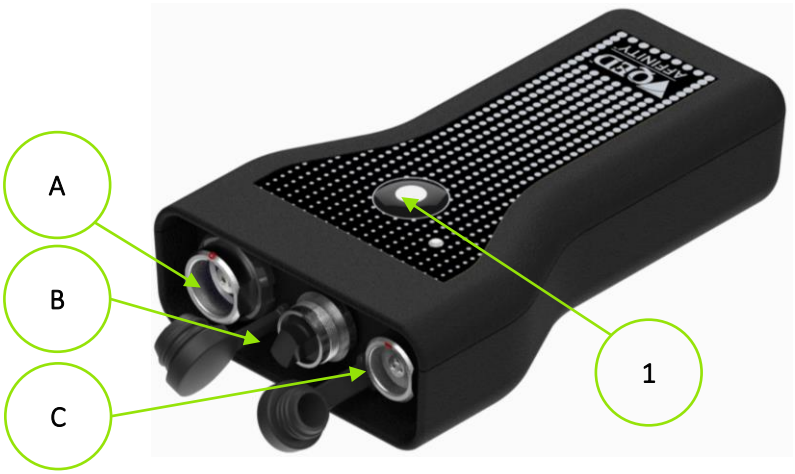

Figure 5 - Affinity Connections

Connector	Uo	Io	Po	Ci	Li	Co	Lo
A – Temperature Probe	5V	5mA	7mW	0µF	0mH	500µF	500mH
B – Humidity Probe	8.6V	16mA	33mW	2µF	0mH	499µF	500mH
C – Anemometer Probe	8.6V	3mA	6mW	0µF	0mH	500µF	500mH

CONNECTION

Affinity connects to the Pro Series by Bluetooth. To turn Affinity on, press and hold the power key, see Annotation 1 on Figure 5, for two seconds. Pairing is done through the Pro Series instrument.

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MAINTENANCE

To prevent fire and explosion:

- Do not open in a hazardous or potentially explosive area.
- Only use QED Battery PMMPB for Pro Series.
- Use only Energizer™ CR2032 (QED part number iQ-COINCELL) for backup battery replacement.
- Only use AA Type Energizer™ L91 batteries for Affinity.
- Do not attempt to charge non-rechargeable batteries.

To avoid misuse hazards:

- Do not alter or modify the equipment outside of any instructions provided by QED.
- Only QED-approved components are to be used as replacement parts. Alternatives may void agency approvals and create safety hazards.
- Repair of this equipment shall be carried out following the applicable code of practice.
- When the battery is ready for disposal, it must be disposed of under the ordinance of the local authority and not disposed of through general waste.
- Comply with all applicable safety regulations.

To avoid toxic fume hazards:

- Open in a well-ventilated area.

Note: *For further information please contact Technical Support at QED on:*

QED Environmental Systems, Inc.

+1 (800) 624-2026

service@qedenv.com

TOOLS

The Pro Series comes supplied with a multi-use tool. This tool can be used on the screws for the Pro Series battery, case back, and modules. The driver bit is double-ended and is a Phillips No. 1 and Slotted No. 4.5mm:

NOTE: DO NOT USE POWER DRILL ON SCREWS. DOING SO CAN CAUSE DAMAGE TO THE UNIT.

Figure 6 - Multi-use Tool

PRO SERIES

Note: *The Pro Series consists of many replaceable parts. Any replaceable part must be supplied by QED or an authorised representative and will come with a specific set of instructions for its replacement. For technical support, please contact QED or an authorised representative.*

For further help, please refer to our Pro Series Help Page:

BATTERY PACK REPLACEMENT

The Pro Series battery pack is user replaceable. It can be changed quickly and easily while in the field, including when in a hazardous area. To replace the battery:

NOTE: DO NOT USE POWER DRILL ON SCREWS. DOING SO CAN CAUSE DAMAGE TO THE UNIT.

1) Ensure the unit is switched off.
2) Using the supplied Phillips No. 1 screwdriver, unscrew the four battery pack screws and remove them from the case back – see Figure 7.

Note: *The battery pack screws are retaining and should remain inside the pack.*

PRO SERIES

Figure 7 - Battery Removal

3) Place the replacement battery pack (QED part number PMMPB) into the case back recess. It will only fit one way and will automatically align itself.
4) Using the supplied tool, select the Phillips No. 1 screwdriver, and secure the battery pack in place.
5) Pro Series is now ready to be switched on and used.

Note: *If the PMMPB battery is removed, the backup coin cell will maintain time/date settings and CO (H_2 compensated) cell conditioning for approximately 10 minutes. After this time, the user will have to reset the time & date and CO (H_2 compensated) cell conditioning will be affected, meaning the user may need to allow the cell to stabilise for 24 hours before use.*

Note: *It is the operator's responsibility to keep a record of when and what maintenance has been performed.*

Note: *In the event of malfunction or damage, please contact QED or an authorised representative.*

Note: *For further information please contact Technical Support at QED on:*

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+1 (800) 624-2026

service@qedenv.com

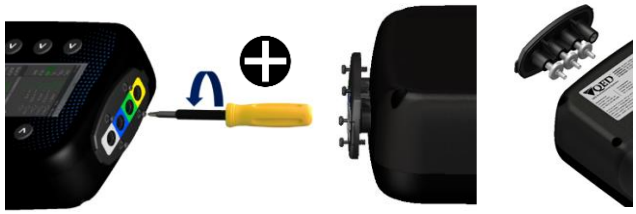
WATER FILTERS

Each inlet port has a PTFE filter to stop liquid from entering the instrument:

NOTE: DO NOT USE POWER DRILL ON SCREWS. DOING SO CAN CAUSE DAMAGE TO THE UNIT.

1) Using the supplied tool, select the Phillips No. 1 screwdriver and unscrew the 4 faceplate screws
2) Gently lift the faceplate away from the case, while keeping it parallel to the top of the case

Note: *Filters firmly located in the Pro Series body can be removed using the supplied filter removal tool.*



3) Replace the filters by placing them inside the faceplate.

4) To reassemble, follow the above steps in reverse order, paying attention to the good fit of mating components and taking care not to overtighten any screws.

COIN CELL REPLACEMENT (ENERGIZER™ CR2032, 3V)

To prevent fire and explosion:

- Do not open in a hazardous or potentially explosive area.
- Use only Energizer™ CR2032 (QED part number iQ-COINCELL) for backup battery replacement.

To avoid misuse hazards:

- Do not alter or modify the equipment outside of any instructions provided by QED.
- Only QED-approved components are to be used as replacement parts. Alternatives may void agency approvals and create safety hazards.
- Repair of this equipment shall be carried out following the applicable code of practice.
- When the battery is ready for disposal, it must be disposed of under the ordinance of the local authority and not disposed of through general waste.
- Comply with all applicable safety regulations.
- It is the operator's responsibility to keep a record of when and what maintenance has been performed.
- In the event of malfunction or damage, please contact QED or an authorised representative.

The internal coin cell battery will retain the current time & date and compensated cell bias for a short time if the primary battery pack is removed. If the coin cell registers as "missing" due to insufficient charge, it should be replaced. Do not perform this work in any Haz Loc locations.

To replace the coin cell:

NOTE: DO NOT USE POWER DRILL ON SCREWS. DOING SO CAN CAUSE DAMAGE TO THE UNIT.

1) Using the supplied Phillips No. 1 screwdriver, unscrew the four battery pack screws and remove them from the case back – see Figure 7.

Note: *The battery pack screws are retaining and should remain inside the pack.*

2) Using the Phillips No. 1 screwdriver, loosen the inlet port plate screws and gently ease from the case assembly using the plate ears, see Figure 8.

Note: *The plate only needs loosening and does not require removal.*

PRO SERIES

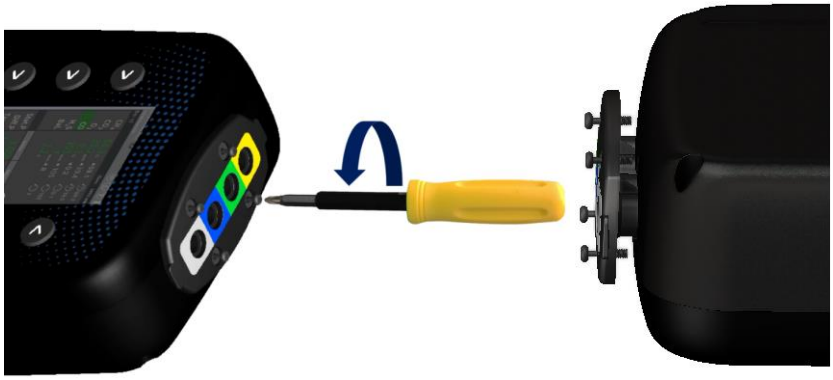


Figure 8 – Inlet Port Plate Removal

3) Using the Phillips No. 1 screwdriver, remove the 8 screws from the case back and gently remove the case back from the case front to have access to the internals of the Pro Series.

Figure 9 - Case Back Removal

Note: *Internals of Pro Series will vary depending on the configuration.*

Note: *The case back screws are retaining and should remain inside the case back.*

4) Simply lift the pressure module from its location to gain access to the coin cell – see annotation 1 in Figure 10.

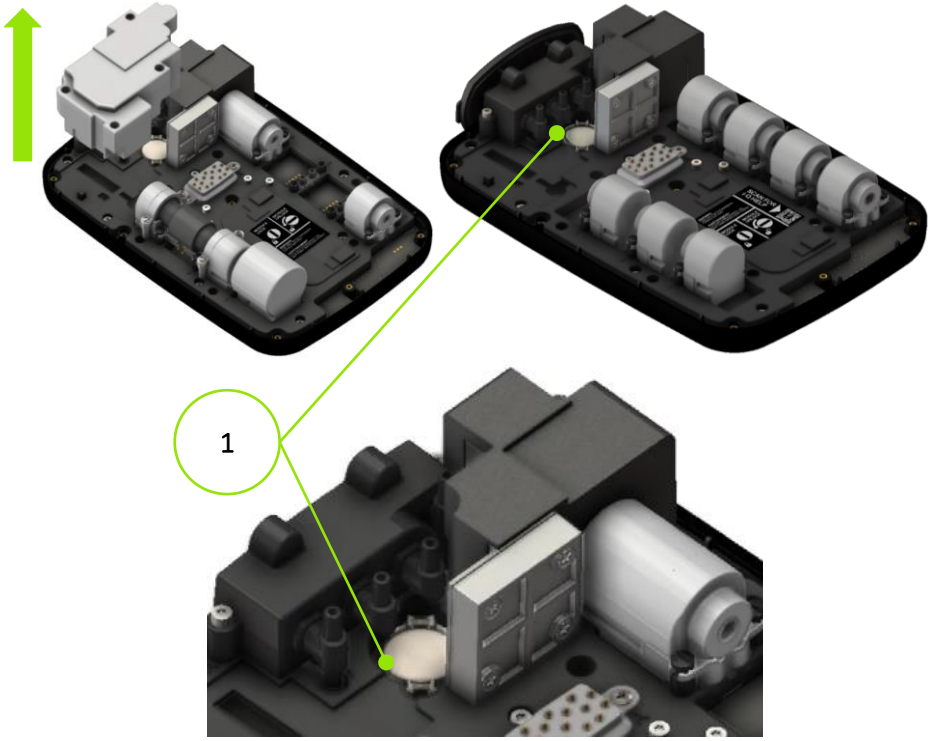


Figure 10 – Pressure Module Removal

5) Using the spudger supplied with the replacement coin cell, lift the old coin cell out of its cradle

Figure 11 – Coin Cell Removed

6) Fit the new coin cell, ensuring correct orientation, with the positive terminal (+) facing upwards

Figure 12 – Coin Cell Orientation

7) Replace the pressure module, ensuring the connector on the Carrier PCB aligns with the socket on the base of the module.

Note: *Care is to be taken when aligning*

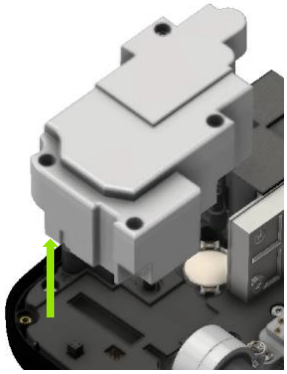


Figure 13 – Pressure Module Alignment

8) Replace the case back and secure it in place with the retained screws and the Phillips No.1 screwdriver

Figure 14 – Case Back Fitting

9) Tighten the inlet port plate screws using the Phillips No.1 screwdriver

Figure 15 – Inlet Port Plate Fitting

10) Place the replacement battery pack (QED part number PMMPB) into the case back recess. It will only fit one way and will automatically align itself.

11) Using Phillips No. 1 screwdriver, secure the battery pack in place.

Figure 16 – Battery Fitting

12) Pro Series is now ready to be switched on and used.

Note: *If the PMMPB battery is removed, the backup coin cell will maintain time/date settings and CO (H_2 compensated) cell conditioning for approximately 10 minutes. After this time, the user will have to reset the time & date and CO (H_2 compensated) cell conditioning will be affected, meaning the user may need to allow the cell to stabilise for 24 hours before use.*

Note: *It is the operator's responsibility to keep a record of when and what maintenance has been performed.*

Note: *In the event of malfunction or damage, please contact QED or an authorized representative.*

Note: *For further information please contact Technical Support at QED on:*

QED Environmental Systems, Inc.

+1 (800) 624-2026

service@qedenv.com

PRO SERIES

AFFINITY BATTERY REPLACEMENT

The batteries in Affinity are user replaceable. When the batteries are getting low, the LED on the Affinity keypad will flash red slowly (see annotation 1 on Figure 17). When the battery is critically low, the LED in the Affinity keypad will flash red rapidly. Do not replace batteries in Haz Loc area.

Figure 17 - Affinity

To replace the Affinity batteries:

NOTE: DO NOT USE POWER DRILL ON SCREWS. DOING SO CAN CAUSE DAMAGE TO THE UNIT.

1) Using the supplied Phillips No. 1 screwdriver, unscrew the two screws on the battery cover found on the rear of the case, and remove them – see Figure 18.

Note: *The battery cover screws are retaining and should remain inside the cover.*

Figure 18 - Affinity Battery Access

2) Remove the old batteries and dispose under the ordinance of the local authority.
3) Replace with 2 x AA Type Energizer™ L91 cells.

Note: *Ensure the correct orientation of batteries.*

4) Replace the battery cover and using Phillips No. 1 screwdriver, secure the cover in place.
5) Affinity is now ready to be switched on and paired with a Pro Series instrument.

Note: *It is the operator's responsibility to keep a record of when and what maintenance has been performed.*

Note: *In the event of malfunction or damage, please contact QED or an authorised representative.*

CLEANING AND DECONTAMINATION

The equipment must have its battery removed before cleaning or decontamination. The enclosure can be cleaned externally using mild soapy water and a non-abrasive cloth.

Should the need arise for the Pro Series instrument to be returned to QED, it is the responsibility of the owner to ensure that the instrument has been decontaminated or that QED has been made aware of any contaminants that may be present, before it being returned.

PRO SERIES

EU DECLARATION OF CONFORMITY
PRO SERIES

EU Declaration of Conformity

This Declaration of Conformity is issued under the sole responsibility of the manufacturer:

QED Environmental Systems
2355 Bishop Circle West
Dexter, Michigan 48130, USA

Product: Pro Series

- GA PRO
- GEM PRO
- BIOGAS AD PRO

Type of equipment: Gas analyser for gas extraction management on a landfill site.

The Pro Series described above is in conformity with the relevant Union harmonisation legislation:

2014/34/EU: Equipment and protective systems intended for use in potentially explosive atmospheres (ATEX)

SGS performed assessment against:

- EN IEC 60079-0:2018
- EN 60079-11:2012

Issuing certificate number SGS NA25ATEX031801.

2014/53/EU: Radio equipment (RED)

TUV SUD performed assessment against:

Radio Spectrum (Article 3.2):

- ETSI EN 300 328 : V2.2.2 (2019-07)

EMC (Article 3.1b):

- ETSI EN 301 489-1 : V2.2.3 (2019-11)
- EN 61326-1 : 2021
- EN61000-3-2 : 2019
- EN 61000-3-3 : 2013 A1: 2019
- ETSI EN 301 489-17 : V3.2.4 (2020-09)

Health and Safety (Article 3.1a):

- IEC 62368-1:2014
- IEC 61010-1:2010/AMD1:2016
- EN 62311:2008
- EN 50663:2017

In addition, the following international requirements are met:

IECEx: International Electrotechnical Commission system for certification to standards relating to equipment for use in explosive atmospheres (IECEx System)

ExVeritas performed assessment against:

- IEC 60079-0:2017 / 2018
- IEC 60079-11:2011 / 2012

Issuing certificate number IECEx SNA 25.0004.

2011/65/EU: Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS)

Signed for and on behalf of:

Name: Mr. Michael Lindquist
Position: Engineering Director
Done at: QED Environmental Systems
On: 21st March 2024

PRO SERIES

AFFINITY

EU Declaration of Conformity

This Declaration of Conformity is issued under the sole responsibility of the manufacturer:

QED Environmental Systems
2355 Bishop Circle West
Dexter, Michigan 48130, USA

Product: Affinity

Type of equipment:
Wireless sensor transmitter for Pro Series peripherals

The Affinity described above is in conformity with the relevant Union harmonisation legislation:

2014/34/EU: Equipment and protective systems intended for use in potentially explosive atmospheres (ATEX)

SGS performed an assessment against:

- EN IEC 60079-0:2018
- EN IEC 60079-11:2012

Issuing certificate number SGS NA25ATEX031802.

In addition, the following international requirements are met:

International Electrotechnical Commission system for certification to standards relating to equipment for use in explosive atmospheres (IECEx System)

SGS performed an assessment against:

- IEC 60079-0:2017 / 2018
- IEC 60079-11:2011 / 2012

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2011/65/EU: Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS)

Signed for and on behalf of:

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On: 21st March 2024

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